Table 1. Attribute Change Table for RBR Class Changes   RTM Baseline: 7/31/96   CCR# 96-0918C

RBR id	RBR _key	RBR req_category	RBR segment	RBR_type	RBR s_verif_ method	RBR s_verif_ stat	RBR a_verif_m ethod	RBR a_verif_ stat	RBR text	RBR interpretation text*	RBR clar._ text
TRMM 1010#A	5856	~~TBD~~ mission critical	SDPS	interface	~~TBD~~ Test	un_verified	Test	un_verified	The ECS systems at the LaRC DAAC shall ingest CERES Level 0 and quick-look data ~~from~~ sets from SDPF.		
TRMM 1030#A	5862	~~TBD~~ N/A_procedu ral	~~SDPS~~ N/A_pro cedural	procedural	~~TBD~~ not verified by ECS	~~un_verified~~ N/A_proced ural	not verified by ECS	N/A_proce dural	The SDPF Level 0 and quick-look data sets for CERES shall contain quality and accounting information.	External only requirement: Information only. No action is required by ECS.	
TRMM 1040#A	5878	~~TBD~~ N/A_procedu ral	~~SDPS~~ N/A_pro cedural	~~interface~~ procedural	~~TBD~~ not verified by ECS	~~un_verified~~ N/A_proced ural	not verified by ECS	N/A_proce dural	The SDPF Level 0 and quick-look data sets for CERES shall contain a detached SFDU header.	External only requirement: Information only. No action is required by ECS.	
TRMM 1050#A	5882	~~TBD~~ mission essential	SDPS	interface	~~TBD~~ test	un_verified	test	un_verified	SDPF shall send a notification to the ECS systems at the LaRC DAAC upon availability of CERES Level 0 production or quick-look data.	ECS shall be capable of receiving notification.	
TRMM 1060#A	5886	~~TBD~~ mission critical	SDPS / CSMS	interface	~~TBD~~ Test	un_verified	Test	un_verified	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production and quick-look data by an agreed-upon file transfer protocol.		
TRMM 1070#A	5893	~~TBD~~ mission essential	SDPS	interface	~~TBD~~ Demo	un_verified	Demo	un_verified	The ECS systems at the LaRC DAAC shall ensure that CERES data has been received and validated.		
TRMM 1080#A	5895	~~TBD~~ mission essential	SDPS	interface	~~TBD~~ Demo	un_verified	Demo	un_verified	The ECS systems at the LaRC DAAC shall acknowledge successful receipt of a CERES data set ~~from~~ to the SDPF.		
TRMM 1090#A	5902	~~TBD~~ mission essential	SDPS	~~interface~~ procedural , operationa l	~~TBD~~ inspectio n	un_verified	inspectio n	un_verified	Upon the ECS systems at the LaRC DAAC discovering an unprocessable data set during validation, the ECS and SDPF personnel shall assess the need for	ECS operations personnel make the discovery of unprocessable data sets.	

Table 1. Attribute Change Table for RBR Class Changes   RTM Baseline: 7/31/96   CCR# 96-0918C

RBR id	RBR _key	RBR req_category	RBR segment	RBR_type	RBR s_verif_ method	RBR s_verif_ stat	RBR a_verif_m ethod	RBR a_verif_ stat	RBR text	RBR interpretation text*	RBR clar._ text
									regeneration.		
TRMM 1100#A	5908	~~TBD~~ N/A_procedural	N/A_procedural	procedural	~~TBD~~ not verified by ECS	~~un_verified~~ N/A_procedural	not verified by ECS	N/A_procedural	SDPF shall regenerate/reprocess CERES Level 0 data for the ECS systems at the LaRC DAAC, for recovery purposes, as negotiated in order to avoid impacting SDPF support for on-orbit spacecraft.	External only requirement: Information only. No action is required by ECS.	
TRMM 1110#A	6419	~~mission fulfillment~~ mission essential	SDPS	interface	test_	un_verified	test	un_verified	SDPF shall provide a CERES Level 0 data set to the ECS systems at the LaRC DAAC once per day within 24 hours of the last acquisition session.	~~External only requirement: Information only. No action is required by ECS.~~	
TRMM 1120#A	5916	~~TBD~~ N/A_procedural	N/A_procedural	procedural	~~TBD~~ not verified by ECS.	~~un_verified~~ N/A_procedural	not verified by ECS.	N/A_procedural	The SDPF shall retain CERES Level 0 data sets for five (5) days.	External only requirement: Information only. No action is required by ECS.	
TRMM 1130#A	5919	~~TBD~~ mission fulfillment	SDPS	interface	~~TBD~~ Test	un_verified	Test	un_verified	The ECS systems at the LaRC DAAC shall receive CERES scheduled quick-look data sets from SDPF 3 times per day plus occasional special quick-look data sets.		
TRMM 1140#A	5921	~~TBD~~ N/A_procedural	N/A_procedural	procedural	~~TBD~~ not verified by ECS.	~~un_verified~~ N/A_procedural	not verified by ECS.	N/A_procedural	A CERES quick-look data set shall contain data received during a single spacecraft contact.	External only requirement: Information only. No action is required by ECS.	
TRMM 1150#A	6420	~~mission critical~~ N/A_procedural	~~SDPS~~ N/A_procedural	~~interface~~ procedural	~~demo~~ not verified by ECS	~~un_verified~~ N/A_procedural	~~test~~ not verified by ECS	~~un_verified~~ N/A_procedural	SDPF shall notify the ECS systems at the LaRC DAAC of availability of a CERES quick-look data set within 2 hours of the end of the acquisition session.	External only requirement: Information only. No action is required by ECS.	
TRMM 1160#A	5925	~~TBD~~ N/A_procedural	~~SDPS~~ N/A_procedural	~~interface~~ procedural	~~TBD~~ not verified by ECS.	~~un_verified~~ N/A_procedural	not verified by ECS.	N/A_procedural	CERES special quick-look data collection and processing shall be scheduled with SDPF by human interaction.	External only requirement: Information only. No action is required by ECS.	
TRMM		~~TBD~~	SDPS	~~interface~~	~~TBD~~	un_verified	not	N/A_proce	Data collected and processed for	External only	

RBR id	RBR _key	RBR req_category	RBR segment	RBR_type	RBR s_verif_ method	RBR s_verif_ stat	RBR a_verif_m ethod	RBR a_verif_ stat	RBR text	RBR interpretation text*	RBR clar._ text
1170#A	5927	N/A_procedural	N/A_pro cedural	procedural	not verified by ECS.	N/A_proced ural	verified by ECS.	dural	CERES solar calibration shall be scheduled by human interaction.	requirement: Information only. No action is required by ECS.	
TRMM 1180#A	2849	~~TBD~~ mission critical	SDPS	interface	~~TBD~~ Test	un_verified	Test	un_verified	ECS shall be able to process SDPF Level 0 and quick-look data sets in SPDF-defined format.		
TRMM 1190#A	5929	~~TBD~~ N/A_procedu ral	N/A_pro cedural	procedural	~~TBD~~ not verified by ECS	~~un_verified~~ N/A_proced ural	not verified by ECS	N/A_proce dural	SDPF shall retain CERES raw data for 2 years.	External only requirement: Information only. No action is required by ECS.	
TRMM 1195#A	5932	~~TBD~~ mission essential	SDPS	interface	~~TBD~~ test	un_verified	test	un_verified	SDPF shall send a notification to the ECS systems at the LaRC DAAC upon availability of predictive or definitive orbit data.	ECS shall be capable of receiving the SDPF notification.	
TRMM 1200#A	5934	~~TBD~~ mission essential	SDPS	interface	~~TBD~~ Demo	un_verified	Demo	un_verified	The ECS systems at the LaRC DAAC shall ingest predicted orbit data from the SDPF.		
TRMM 1280#A	2874	~~TBD~~ mission fulfillment	SDPS	interface	~~TBD~~ Test	un_verified	Test	un_verified	ECS shall be able to accept CERES simulated data from SDPF.		
TRMM 3050#A	5998	~~TBD~~ mission essential	SDPS	interface	~~TBD~~ Test	un_verified	Test	un_verified	The ECS systems at the ~~MSFC~~ GSFC DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.		
TRMM 4010#A	6018	~~TBD~~ mission essential	SDPS	interface	~~TBD~~ Test	un_verified	Test	un_verified	The ECS systems at the GSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for VIRS, PR and TMI, and combined products from TSDIS.		
TRMM 4030#A	6021	~~TBD~~ mission fulfillment	SDPS	interface	~~TBD~~ Test	un_verified	Test	un_verified	The ECS systems at the GSFC DAAC shall ingest TRMM browse products for VIRS, PR, TMI, combined products and GV from TSDIS.		
TRMM 4040#A	6024	~~TBD~~	SDPS	interface	~~TBD~~	un_verified	Test	un_verified	The ECS systems at the GSFC DAAC shall ingest from TSDIS		

RBR id	RBR _key	RBR req_category	RBR segment	RBR_type	RBR s_verif_method	RBR s_verif_stat	RBR a_verif_method	RBR a_verif_stat	RBR text	RBR interpretation text*	RBR clar._ text
		<u>mission essential</u>			<u>Test</u>				algorithms and documentation for VIRS, PR, TMI and combined products.		
TRMM 4050#A	6027	~~TBD~~ <u>mission essential</u>	SDPS	interface, functional	~~TBD~~ <u>Test</u>	un_verified	<u>Test</u>	<u>un_verified</u>	The VIRS, PR, TMI, combined products and GV data ingested from TSDIS by ECS shall be archived at the ECS systems at the GSFC DAAC.		
TRMM 4060#A	6029	~~TBD~~ <u>mission essential</u>	SDPS	interface	~~TBD~~ <u>Test</u>	un_verified	<u>Test</u>	<u>un_verified</u>	The ECS systems at the GSFC DAAC shall ingest TRMM data files and data products, including metadata, daily.		
TRMM 4070#A	6031	~~TBD~~ <u>N/A_procedural</u>	~~SDPS~~ <u>N/A_procedural</u>	~~interface~~ <u>procedural</u>	~~TBD~~ <u>not verified by ECS.</u>	~~un_verified~~ <u>N/A_procedural</u>	<u>not verified by ECS.</u>	<u>N/A_procedural</u>	TSDIS shall ~~electronically~~ provide a schedule <u>for reprocessing to the</u> ~~of TRMM product delivery to the ECS systems at the~~ GSFC DAAC.	<u>External only requirement: Information only. No action is required by ECS.</u>	
TRMM 4080#A	6033	~~TBD~~ <u>N/A_procedural</u>	~~SDPS~~ <u>N/A_procedural</u>	~~interface~~ <u>procedural</u>	~~TBD~~ <u>not verified by ECS.</u>	~~un_verified~~ <u>N/A_procedural</u>	<u>not verified by ECS.</u>	<u>N/A_procedural</u>	TSDIS shall ~~electronically~~ provide status information to the ECS systems at the GSFC DAAC about delayed products.	<u>External only requirement: Information only. No action is required by ECS.</u>	
TRMM 4090#A	6507	mission essential	SDPS	interface	test_	un_verified	test	un_verified	ECS shall make daily deliveries of an average of 2-days worth of archived TRMM VIRS, PR, TMI and GV, ~~Global Precipitation Climatology Project (GPCP),~~ and ancillary data to TSDIS for the purpose of reprocessing by TSDIS. ECS shall also daily ingest an average of 2-days worth of reprocessed data from TSDIS.		
TRMM 4100#A	6508	mission essential	SDPS	interface	test_	un_verified	test	un_verified	TSDIS shall make a standing order to ECS for ~~AVHRR,~~ ancillary data to be delivered from the ECS systems at the GSFC DAAC to TSDIS.		
TRMM 4110#A	6509	mission essential	CSMS	interface	~~inspection~~ <u>Test</u>	un_verified	test	un_verified	Communications between TSDIS and the ECS systems at the GSFC DAAC to transport the VIRS, PR, TMI, combined products and GV		

RBR id	RBR _key	RBR req_category	RBR segment	RBR_type	RBR s_verif_ method	RBR s_verif_ stat	RBR a_verif_m ethod	RBR a_verif_ stat	RBR text	RBR interpretation text*	RBR clar._ text
									standard products, metadata, ancillary data, and algorithms and documentation shall be provided by ESDIS.		
TRMM 4130#A	6045	~~TBD~~ mission essential	SDPS	~~interface~~ procedural	~~TBD~~ inspectio n	un_verified	inspectio n	un_verified	All data transferred between TSDIS and ECS systems at the GSFC DAAC, including GV shall follow ESDIS-defined standards, with specific product formats to be jointly agreed to and documented in ICDs.		
TRMM 5010#A	3015	~~TBD~~ mission essential	SDPS	interface	~~TBD~~ Test	un_verified	Test	un_verified	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.		
TRMM 5030#A	3020	~~TBD~~ _mission fulfillment	SDPS	interface	~~TBD~~ Test	un_verified	Test	un_verified	ECS shall have the capability to ingest directory and guide information from TSDIS.		
TRMM 5040#A	3022	~~TBD~~ _mission essential	SDPS	interface	~~TBD~~ Test	un_verified	Test	un_verified	ECS shall have the capability to archive and distribute standard TRMM data files and products (including VIRS, PR, ~~and~~ TMI, and combined products data, metadata, GV data, algorithms and documentation) as provided and produced by TSDIS and the TRMM Science Team.		
TRMM 5050#A	3024	~~TBD~~ N/A_procedu ral	~~N/A~~ N/A_pro cedural	procedural	~~TBD~~ not verified by ECS	~~un_verified~~ N/A_proced ural	not verified by ECS	N/A_proce dural	TRMM shall support maintenance of a TRMM user model for use in the overall ECS user model.	External only requirement: Information only. No action is required by ECS.	
TRMM 5060#A	3026	~~TBD~~ mission essential	SDPS	interface	~~TBD~~ Demo	un_verified	Demo	un_verified	ECS shall provide standard information management functions for browse, and order of data and products provided by TSDIS and delivered to the ~~MSFC and~~ GSFC DAAC~~s~~ (including VIRS, PR , ~~and~~ TMI, and combined products data, metadata, GV data, TRMM		

RBR id	RBR _key	RBR req_category	RBR segment	RBR_type	RBR s_verif_ method	RBR s_verif_ stat	RBR a_verif_m ethod	RBR a_verif_ stat	RBR text	RBR interpretation text*	RBR clar._ text
									Science Team algorithms and documentation).		
TRMM 5070#A	3028	~~TBD~~ mission essential	SDPS	interface	~~TBD~~ Demo	un_verified	Demo	un verified	ECS will continue to archive original TRMM standard products (Level 1B-3) after reprocessing for 6 months, after which the products will become eligible for deletion.		
TRMM 5100#A	3034	~~TBD~~ mission essential	SDPS	interface	~~TBD~~ Demo	un_verified	Demo	un verified	ECS shall provide products status for TRMM products to users based upon ECS holdings. ~~Status also shall be based on the TRMM schedule provided electronically by TSDIS and an interactive status mechanism for late products.~~	For release A, ECS only archives and distributes TRMM products, therefore, only the status of these services can be provided to users.	
TRMM 8010#A	3040	~~TBD~~ N/A_procedu ral	~~SDPS~~ N/A_pro cedural	~~interface~~ procedural	~~TBD~~ not verified by ECS	~~un_verified~~ N/A_proced ural	not verified by ECS	N/A_proce dural	TRMM shall manage, and ESDIS shall support, the TRMM end-to-end system testing of the interfaces between ECS and TRMM.	External only requirement: Information only. No action is required by ECS.	
TRMM 8020#A	6047	~~TBD~~ N/A_procedu ral	~~SDPS~~ N/A_pro cedural	procedural	~~TBD~~ not verified by ECS	~~un_verified~~ N/A_proced ural	not verified by ECS	N/A_proce dural	ESDIS shall support testing, fault isolation, verification, and validation of the interfaces with the TRMM end-to-end ground system.	External only requirement: Information only. No action is required by ECS.	
TRMM 8030#A	6049	~~TBD~~ N/A_procedu ral	N/A_pro cedural	procedural	~~TBD~~ not verified by ECS	~~un_verified~~ N/A_proced ural	not verified by ECS	N/A_proce dural	The TRMM I&T Program shall develop an overall ground segment integration and test plans and procedures.	External only requirement: Information only. No action is required by ECS.	
TRMM 8031#A	6051	~~TBD~~ N/A_procedu ral	N/A_pro cedural	procedural	~~TBD~~ not verified by ECS	~~un_verified~~ N/A_proced ural	not verified by ECS	N/A_proce dural	ESDIS shall develop test plans and procedures in support of the development, verification, and testing of the interfaces with the TRMM ground system.	External only requirement: Information only. No action is required by ECS.	
TRMM 8040#A	6053	~~TBD~~	N/A_pro	procedural	~~TBD~~	~~un_verified~~	not	N/A_proce	ESDIS shall support TRMM development of test plans and	External only	

RBR id	RBR _key	RBR req_category	RBR segment	RBR_type	RBR s_verif_ method	RBR s_verif_ stat	RBR a_verif_m ethod	RBR a_verif_ stat	RBR text	RBR interpretation text*	RBR clar._ text
		N/A_procedu ral	cedural		not verified by ECS	N/A_proced ural	verified by ECS	dural	procedures in support of the development, verification, and testing of the interfaces between the TRMM ground system and ECS.	requirement: Information only. No action is required by ECS.	
TRMM 8050#A	6056	~~TBD~~ N/A_procedu ral	N/A_pro cedural	procedural	~~TBD~~ not verified by ECS	~~un_verified~~ N/A_proced ural	not verified by ECS	N/A_proce dural	The TSDIS elements shall support integration and test activities defined in the TRMM overall ground segment integration and test plans and procedures.	External only requirement: Information only. No action is required by ECS.	
TRMM 8060#A	6105	~~TBD~~ mission fulfillment	SDPS	operationa l, functional	~~TBD~~ inspectio n and demo	un_verified	inspectio n and demo	un_verified	ECS shall archive and distribute TRMM test plans and procedures for the interface between ECS and the TRMM ground system including TSDIS.	ECS shall receive TSDIS plans and procedures in hardcopy and/or softcopy for archiving in ECS. Actual archiving to be done by ECS operations personnel into ECS archives. Distribution to be done by ECS to ECS operations personnel upon request.	
TRMM 8071#A	6106	~~TBD~~ mission essential	SDPS	interface	~~TBD~~ Analysis	un_verified	Analysis	un_verified	ECS shall support all dataflows and archival and distribution functionality for integration and test with the TRMM ground system.		
TRMM 8080#A	6060	~~TBD~~ mission essential	SDPS	procedural	~~TBD~~ inspectio n	un_verified	inspectio n	un_verified	ECS shall support TRMM Mission Simulation #1.		
TRMM 8081#A	6061	~~TBD~~ mission essential	SDPS	procedural	~~TBD~~ inspectio n	un_verified	inspectio n	un_verified	ECS shall support TRMM Mission Simulation #2.		
TRMM		~~TBD~~	SDPS	interface	~~TBD~~	un_verified	Analysis	un_verified	ECS shall archive and distribute		

Table 1. Attribute Change Table for RBR Class Changes   RTM Baseline: 7/31/96   CCR# 96-0918C

RBR id	RBR _key	RBR req_category	RBR segment	RBR_type	RBR s_verif_method	RBR s_verif_stat	RBR a_verif_method	RBR a_verif_stat	RBR text	RBR interpretation text*	RBR clar._text
8090#A	6108	<u>mission essential</u>			<u>Analysis</u>				TRMM algorithms and documentation in support of test and integration of interfaces with TSDIS.		
TRMM 8100#A	6510	mission critical	SDPS	interface	demo	un_verified	demo	un_verified	ECS shall process CERES Level 0 and quick-look data sets received from SDPF for early interface testing.		
TRMM 8110#A	6111	~~TBD~~ <u>N/A_procedural</u>	<u>N/A_procedural</u>	procedural	~~TBD~~ <u>not verified by ECS.</u>	~~un_verified~~ <u>N/A_procedural</u>	<u>not verified by ECS.</u>	<u>N/A_procedural</u>	The TSDIS elements shall be capable of processing simulated TRMM instrument data in support of pre launch checkout of the interfaces with ECS.	<u>External only requirement: Information only. No action is required by ECS. Note - TSDIS / ECS interfaces are accommodated in the TRMM 4000 series requirements.</u>	
TRMM 8120#A	6511	~~mission essential~~ <u>N/A_procedural</u>	~~SDPS~~ <u>N/A_procedural</u>	procedural	~~analysis~~ <u>not verified by ECS.</u>	~~un_verified~~ <u>N/A_procedural</u>	~~analysis~~ <u>not verified by ECS.</u>	~~un_verified~~ <u>N/A_procedural</u>	ESDIS shall coordinate provision of CERES simulated instrument data and instrument data parameters to SDPF in support of integration and test.	<u>External only requirement: Information only. No action is required by ECS.</u>	